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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,131	08/26/2004	Ronald Scott Bunker	154024-1	5130
23413 CANTOR COL	7590 04/16/200 BURN, LLP		EXAMINER	
55 GRIFFIN RO	OAD SOUTH		RODRIGUEZ,	WILLIAM H
BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
			3746	
			<u> </u>	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		04/16/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Summers	10/711,131	BUNKER ET AL.				
Office Action Summary	Examiner	Art Unit				
	William H. Rodríguez	3746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 08 M	arch 2007.	•				
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.		•				
6)⊠ Claim(s) <u>1,2,8,10 and 13-19</u> is/are rejected.						
7)⊠ Claim(s) <u>3-7,9,11 and 12</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	·.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents	have been received					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:						
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#### FINAL REJECTION

This office action is in response to the amendment and remarks filed 3/8/07.

## Claim Rejections - 35 USC § 102

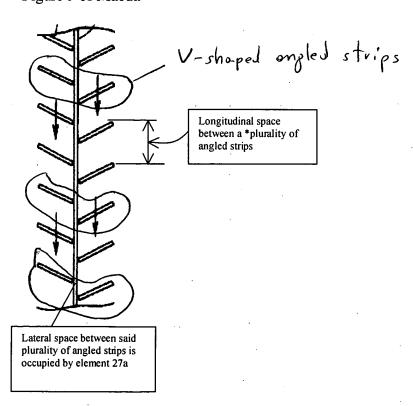
1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 8 and 13-19 are rejected under 35 U.S.C. 102(b) as being anticipated by

Maeda (US 5,802,841).

Figure 9 of Maeda



Maeda (Figures 9 and 10 particularly) teaches a combustor liner comprising a plurality of angled strips 27b integrally formed on an outer surface of said liner, said angled strip having a V shape and creating vortices on a cooling air flowing in a longitudinal direction across said outside surface of said combustor liner, said angles strips having a flat top, a space between each of said plurality of angles strips includes a lateral space and a longitudinal space, said lateral space disposed between each of said plurality of angled strips, each angled strip having a height (as illustrated in Figure 10), said angled strips have an angle from a horizontal direction from about 30-60 degrees, said combustion liner is enclosed by a sleeve (Figure 8),. See particularly Figures 9 and 10; cl. 9 ll. 49-55; and cl. 11 ll. 25-30.

Notice that said lateral space disposed between each of said plurality of angled strips is occupied by element 27a. However, nothing in the claims states that the lateral space disposed between each of said plurality of angled strips has to be an empty space. Therefore, the claim as written is anticipated by the occupied lateral space between each of said plurality of angled strips.

With respect to claims 17-19, since Maeda has the same structure as claimed, it is inherent that Maeda's device would be able to perform the recited method steps. Moreover, where a product by process claim is rejected over a prior art product that appears to be identical, although produced by a different process, the burden is upon the applicants to come forward with evidence establishing an unobvious difference between the two. See *In re Marosi*, 218 USPQ 289 (Fed. Cir. 1983).

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## Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda (US 5,802,841).

Regarding the claimed limitations "the angle strips have a height of about 0.02 inches to about 0.12 inches", to the extent that the claimed invention produces the claimed desired results, the applied prior art structure being the same, does the same. In addition, it has been held that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955), MPEP 2144.05 II.

Moreover, the above claimed ranges for the height and space dimensions are considered to be obvious design choices, that one of ordinary skill in the art would have known how to optimize in view of the specific temperatures, and choice of materials used in the design.

# Allowable Subject Matter

5. Claims 3-7, 9, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Response to Arguments

6. Applicant's arguments filed 03/08/2007 have been fully considered but they are not persuasive for the following reasons.

With respect to claim 1 and 17, applicant argues that Maeda does not teach a lateral space between each of the plurality of angled strips. Notice that Maeda does teach a lateral space disposed between each of said plurality of angled strips, said lateral space being occupied by element 27a. However, nothing in the claims states that the lateral space disposed between each of said plurality of angled strips has to be an empty space. Therefore, the claim as written is anticipated by the occupied lateral space between each of said plurality of angled strips.

#### Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Contact information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to William H. Rodríguez whose telephone number is 571-272-4831.

The examiner can normally be reached on Monday-Friday 7:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dr. Ehud Gartenberg can be reached on 571-272-4828. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

20/11/24 4/11/29 William H. Rodríguez

· Primary Examiner

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